

Accomplishments: Implementation of the 1998 Plan

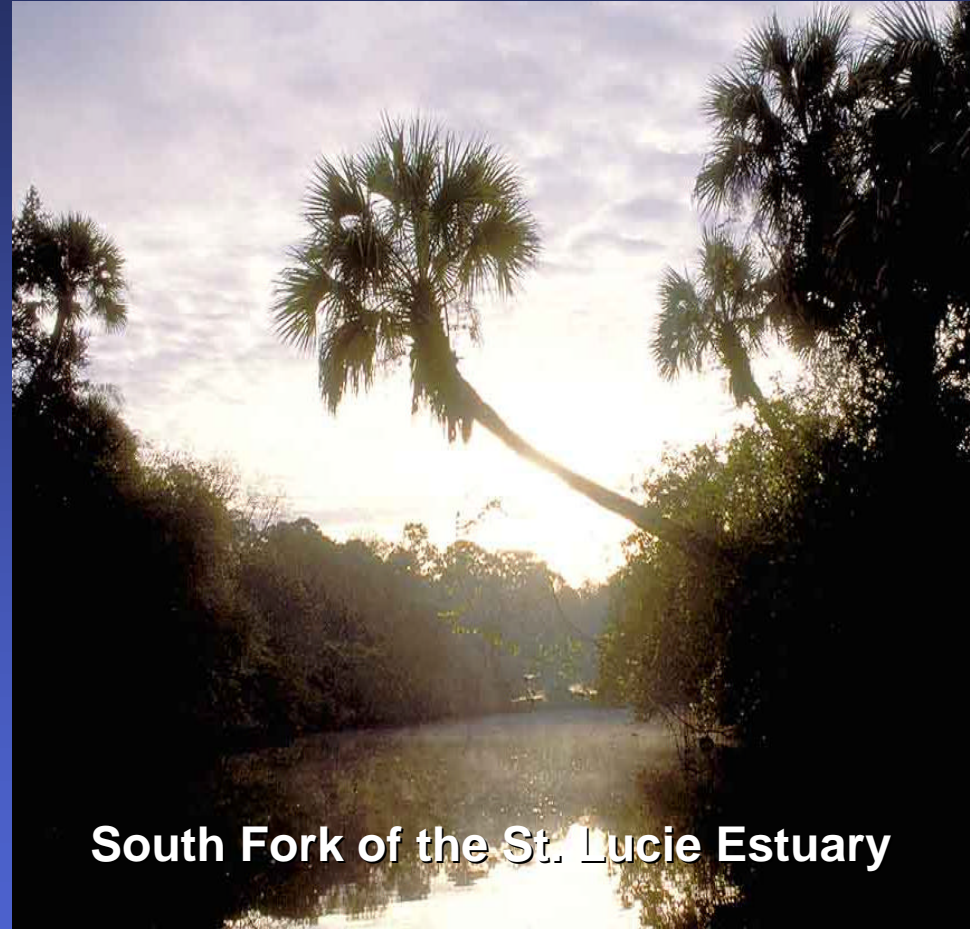
*Sharon Fowler, AICP
Water Supply Department*

Surface Water Storage

- Complete **IRL Feasibility Study**
- Support the design and construction of **Ten Mile Creek** project
- Establish **minimum flows and levels** for St. Lucie Estuary
- Conduct canal conveyance capacity studies and **remove depositions** where appropriate

A Minimum flow and level was established for the St. Lucie Estuary in 2002

- A prevention strategy will be implemented in coordination with the Upper East Coast Water Supply Plan update
- A restoration plan has been initiated



South Fork of the St. Lucie Estuary

The C-23 Canal Dredging Project has been successful in increasing conveyance in the canal

- There are four phases in this dredging project which represent segments of the canal
- Phase 4 is on hold due to lack of funding

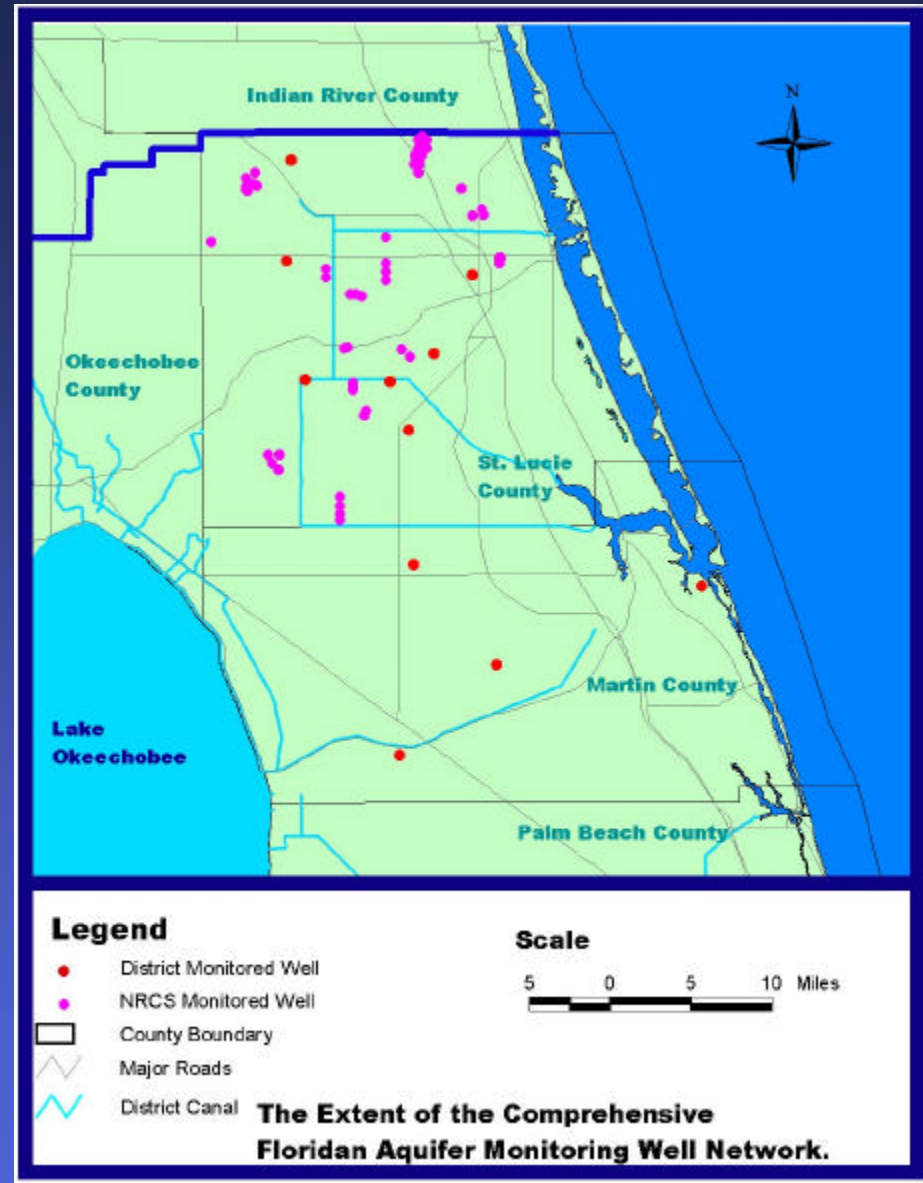


Floridan Aquifer

- Remove Floridan aquifer from MFL priority list (1997)
- Develop comprehensive monitoring network
- Develop well abandonment program
- Evaluate desalination concentrate disposal options
- Evaluate Floridan aquifer recharge areas

The Floridan aquifer monitoring well network collects data to evaluate relationships between water quality, water use and water levels

There are 11 SFWMD sites and 21 NRCS sites in the monitoring network



Closing leaking Floridan wells prevents the deterioration of the surficial aquifer while saving water in the Floridan aquifer

- **The Floridan Well Abandonment Program closed or rehabilitated 336 wells from 1979 - 1991**
- **There were 40 additional Floridan wells closed from a District cost-share program from 1998 - 2000**

Use of Brackish Water, Who's Doing it?

- Fort Pierce Utilities Authority
- Port St. Lucie
- Martin County Utilities
 - North/Jensen Beach
 - Tropical Farms
- South Martin Regional Utilities



Upper East Coast Planning Area

Regional Potable Water Treatment Facilities



Conservation

- Develop **fiscal incentives** for non mandated conservation measures
- Provide funding for **urban mobile irrigation laboratories** in Martin and St. Lucie counties
- Develop **cooperative approach** to convert flood irrigation to micro-jet

Microjet irrigation has saved billions of gallons of water

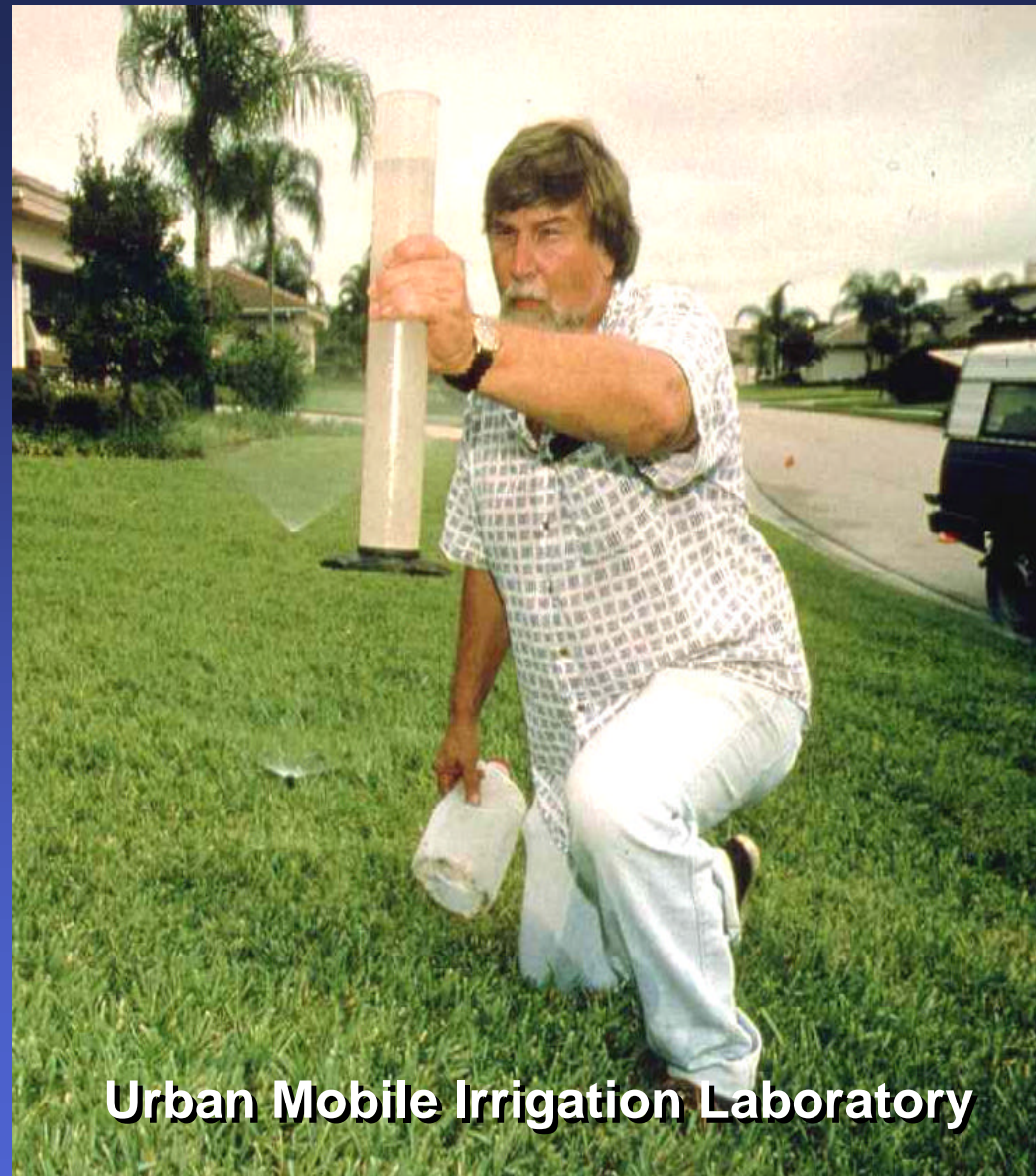
- From 1998 through 2002, 2,200 acres of citrus on flood irrigation have been converted to micro irrigation
- This has saved 1.34 billion gallons over that five-year period



Citrus Tree on Microjet Irrigation

**Urban and
Agricultural
Mobile Irrigation
Laboratories
saved 8.5 MGD
from 1998 - 2002**

**A typical urban MIL
performs 140 evaluations
per year, saving 50-60
million gallons per year**



Urban Mobile Irrigation Laboratory

Water Reuse - Who's Doing It??



- South Martin Regional Utilities

- Indiantown

- St. Lucie County

- South Hutchinson Island

- North (Holiday Pines)

- Port St. Lucie

- Northport

- Westport

- Martin County Utilities

- North/Jensen Beach

- Port Salerno/Dixie Park

- Martin Downs

- Tropical Farms



Upper East Coast Planning Area

Regional Wastewater Treatment Facilities

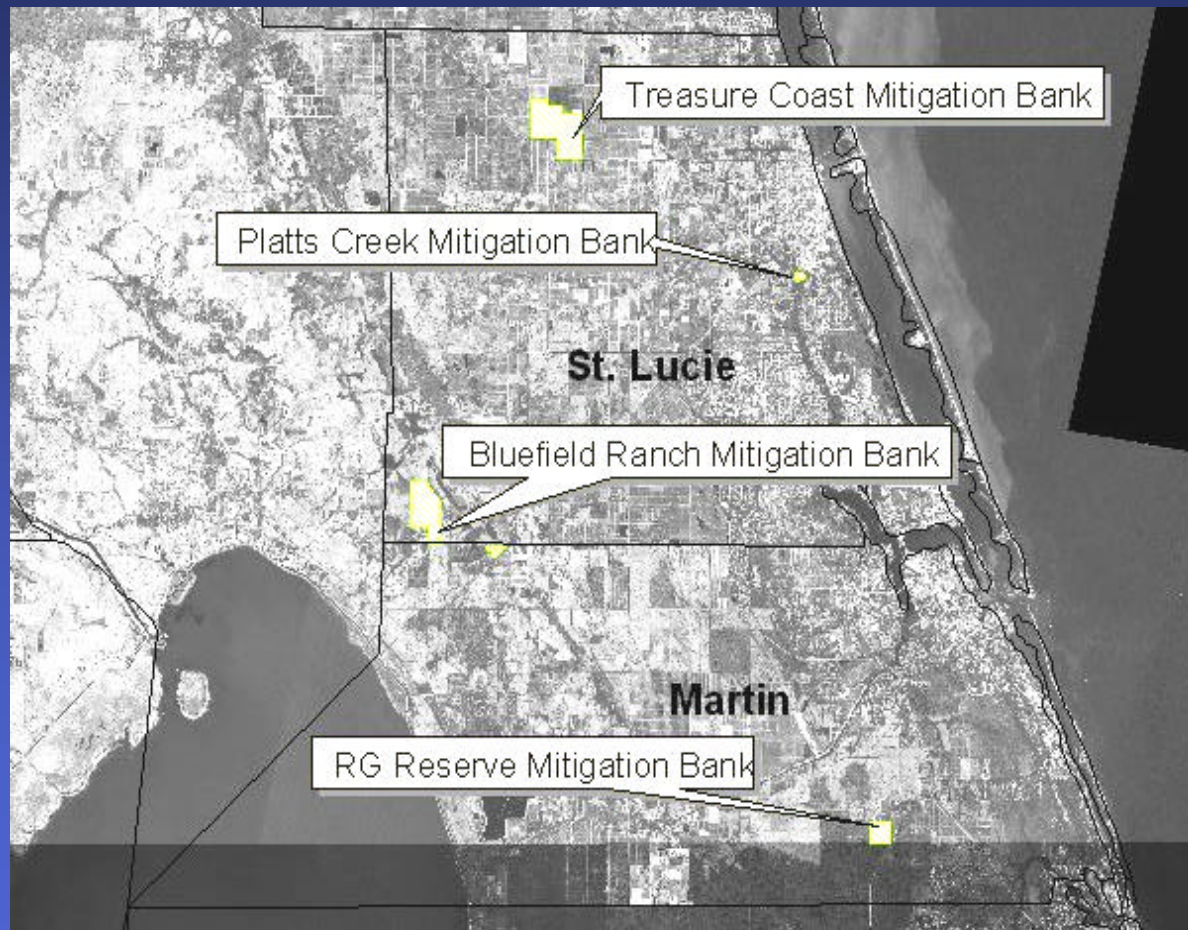


Alternative Water Supply Funding projects create additional water

Fiscal Year	Project Type	SFWMD Funding*	Additional Water (mgd)
FY03 Projects	1 Ocean outfall for reverse osmosis plant	150,000	1.00
FY02 Projects	2 Floridan aquifer/reverse osmosis 1 Reclaimed water use	682,800	2.17
FY01 Projects - None		0	0
FY00 Projects	3 Floridan aquifer/reverse osmosis 1 Reclaimed water use 1 Storm water reuse	927,000	9.66
FY99 Projects	2 Floridan aquifer/reverse osmosis 2 Reclaimed water use 1 Storm water reuse 1 Collector well	920,000	10.90
Total		2,679,800	23.73

*Total project costs \$34,822,000

There are several mitigation Bank sites in the Upper East Coast



Accomplishments: Related Activities Since 1998

WSE (Water Supply/Environmental) is an improvement over Run 25

- The WSE schedule, authorized in July 2002, was developed to improve performance of the lake littoral zone habitat and water supply, without impacting the other lake water management objectives
- WSE allows adjustments to be made in the timing and magnitude of regulatory discharges



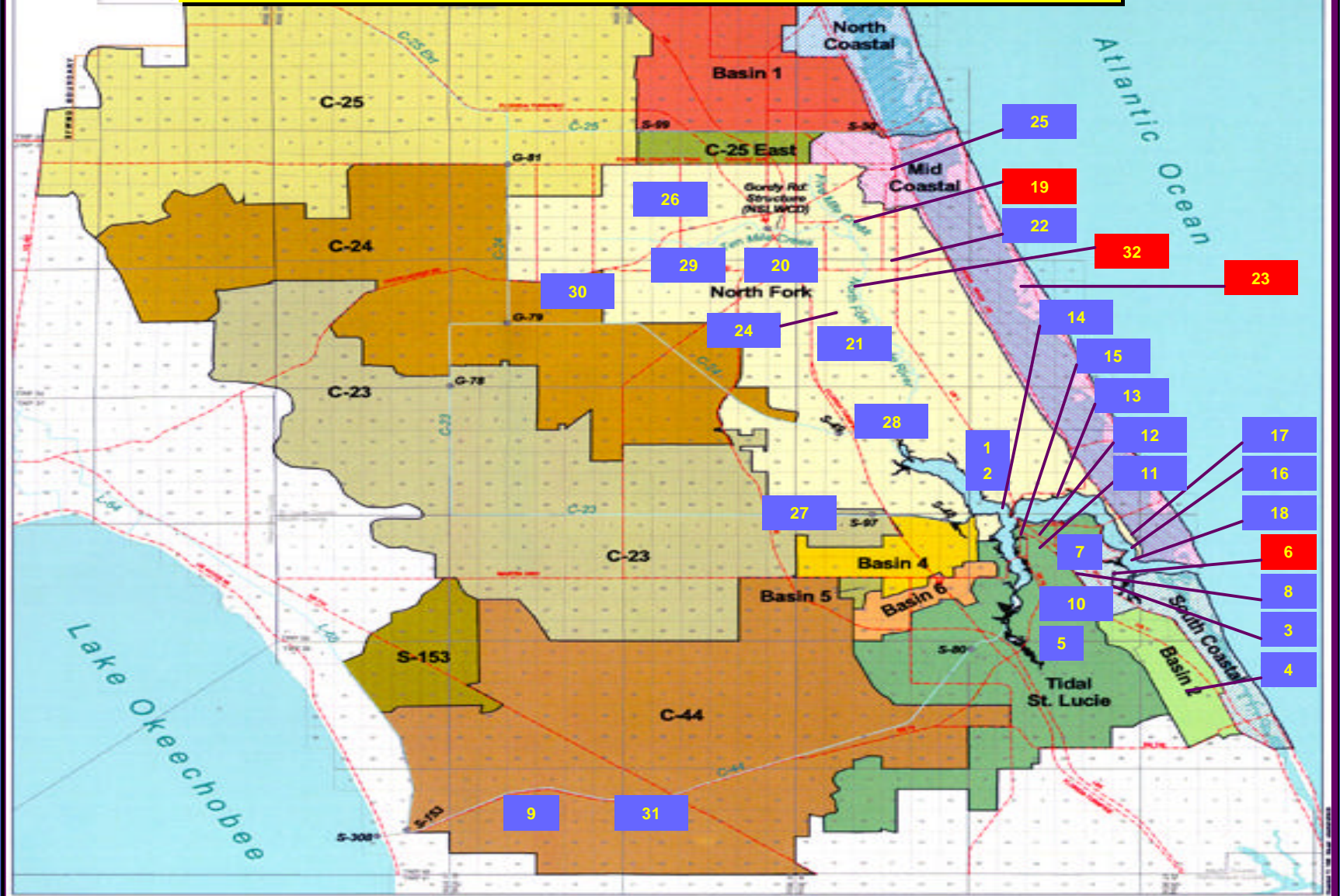
Lake Okeechobee Marsh

A minimum flow and level was established for the Loxahatchee River in 2002

- **A recovery strategy will be implemented in coordination with the Lower East Coast Regional Water Supply Plan update**
- **A restoration plan has been initiated**



There are 41 St. Lucie River Issues Team Projects



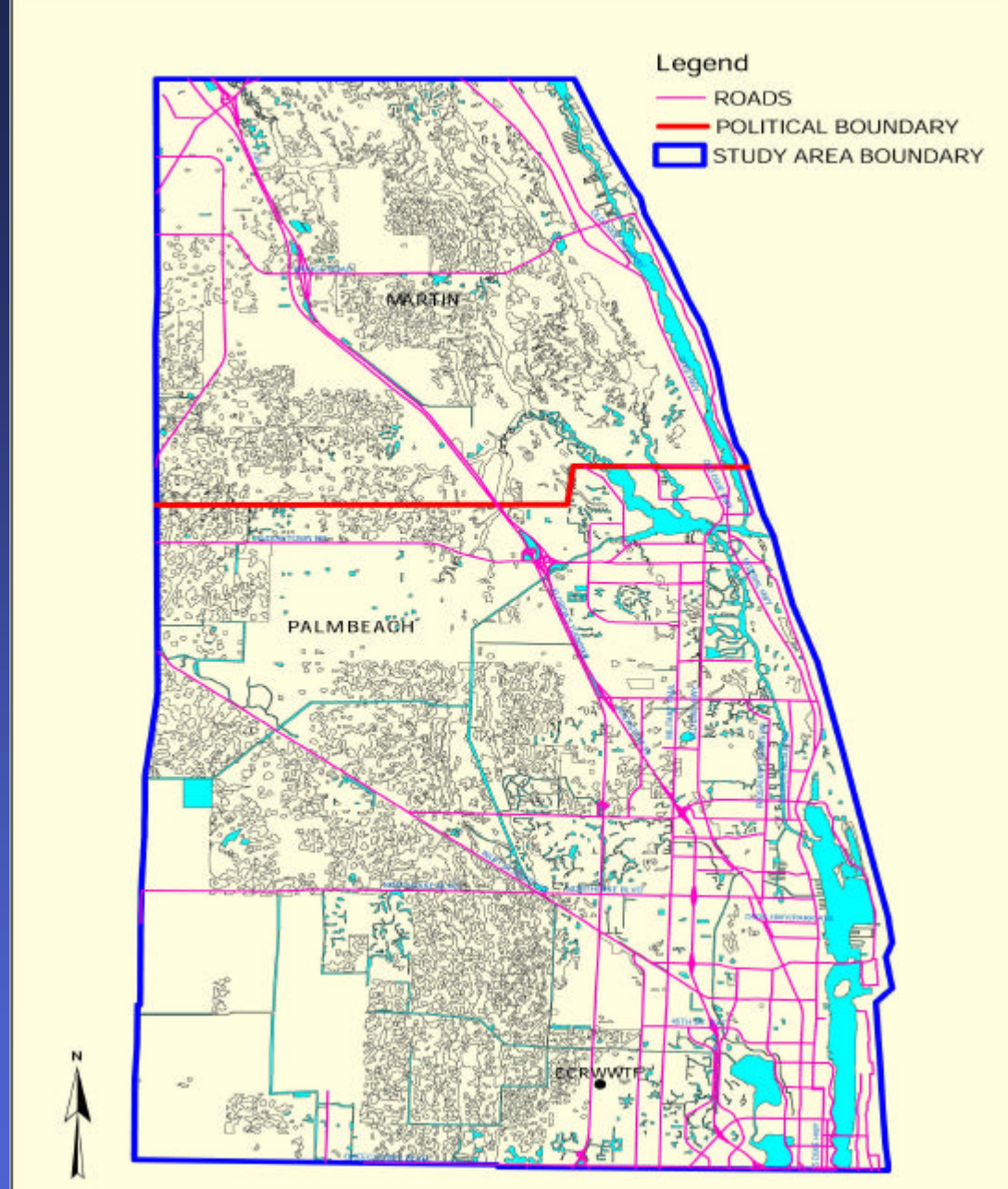
Reclaimed Water Regional Conveyance System Master Plan for Northern Palm Beach County and Southern Martin County



Purpose

Develop a regional Water Reuse Feasibility Study and Master Plan for the area around the ECRWRF located in WPB north to southern Martin County

- Completed in 2002



Conclusions

■ Northern Demand Area

- Based on projected demands, not feasible at this time
- A new large user, such as a power generation facility, may make project feasible

■ Southern Demand Area

- May be feasible
- Should be further investigated at the local level



The IRL SWIM Plan was updated in 2002

The purpose of the IRL SWIM Plan is to:

- Attain water quality to support a healthy estuarine ecosystem
- Support threatened and endangered estuarine species, fisheries, and wildlife

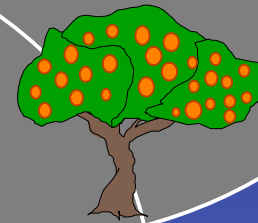
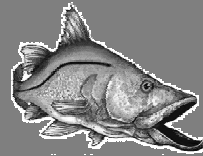
**Indian River
Lagoon
SWIM Plan**

- Quality



**IRL Restoration
Feasibility Study**

- Storage / Timing



**Upper East Coast
Water Supply Plan**

- Quantity